GENFLEX AFR EPDM Membrane

Item Description
1 Roll

Item Number
Various

Product Information

Description
GenFlex AFR EPDM Membrane is a non-reinforced, cured, single-ply roofing membrane that can be used in ballasted, fully adhered and mechanically attached systems.

General Application Information:
- Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane.
- All roughened surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
- All surface voids greater than ¼" (6.3 mm) wide shall be properly filled with an acceptable fill material.
- GenFlex AFR EPDM Membrane must be installed in accordance with current GenFlex specifications, details and workmanship requirements.

Storage
- Store away from sources of punctures and physical damage.
- Assure that structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.
- Store away from ignition sources as membrane will burn when exposed to open flame.

Packaging Data			
Membrane Thickness	**Width**	**Length**	**Weight**
0.045" (1.14 mm)	7.5' (2.3 m) 10' (3.05 m) 16.7' (5.09 m) 20' (6.10 m) 30' (9.14 m) 40' (12.19 m) 50' (15.24 m)	100' (30.5 m)	0.29 lb/ft² (1.4 kg/m²)
0.060" (1.52 mm)	7.5' (2.3 m) 10' (3.05 m) 16.7' (5.09 m) 20' (6.10 m) 30' (9.14 m) 40' (12.19 m) 50' (15.24 m)	100' (30.5 m)	0.39 lb/ft² (1.9 kg/m²)
NOTE: Available sizes vary by product. Contact your GenFlex Customer Service Representative for availability and packaging information.			

Precautions

- Take care when moving, transporting, handling, etc. to avoid sources of punctures and physical damage.
- Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the EPDM membrane.
- Refer to Safety Data Sheets (SDS) for safety information.

LEED® Information

Post-Consumer Recycled Content: 0%
Post Industrial Recycled Content: 0%
Manufacturing Locations: Prescott, AR
*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.

CCMC 13265-L

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Typical Properties

Physical Test	ASTM Minimum Value	Typical Value 45 mil	Typical Value 60 mil
Thickness (D412)	**45 mil:** 1.143 mm +0.178 mm/-0.127 mm (0.045″ +0.007″/-0.005″) **60 mil:** 1.52 mm +0.229 mm/-0.152 mm (0.060″ +0.009″/-0.006″)	1.092 mm (0.043″)	1.37 mm (0.054″)
Tensile Strength (D412, Die C)	9.0 MPa (1305 psi) Minimum	9.03 MPa (1309 psi)	9.09 MPa (1319 psi)
Dynamic Puncture Resistance @ 5J (D5635)	Pass	Pass	Pass
Static Puncture Resistance @ 20 kg (D5602)	Pass	Pass	Pass
Elongation, Ultimate % (D412, Die C)	300% Minimum	445%	480%
Tensile set (D412, Method A, Die C)	10% Maximum	0%	Pass
Tear Resistance (D624, Die C)	26.27 kN/m (150 lbf/in) Minimum	29.60 kN/m (169 lbf/in)	29.25 kN/m (167 lbf/in)
Brittleness point (D2137)	-45 ºC (-49 ºF) Maximum	-45 °C (-49 °F)	Pass
Ozone resistance, no cracks D1149)	Pass	Pass	Pass
Tensile Strength after Heat Aging*	21.9 kN/m 125 lbf/in Minimum	9.48 MPa (1365 psi)	Pass
Elongation, Ultimate after Heat Aging*	200% Minimum	306%	Pass
Tear Resistance after Heat Aging*	21.9 kN/m 125 lbf/in Minimum	33.1 kN/m (189 lbf/in)	Pass
Linear Dimensional Change after Heat Aging*	± 1%	-1%	Pass
Water Absorption by Mass (D471)	+8%/-2%	+1%	Pass
Visual Inspection after Xenon-Arc Weather Resistance Exposure**	Pass	Pass	Pass
PRFSE, Minimum % after Xenon-Arc Weather Resistance Exposure**	30% Minimum	75%	Pass
Elongation, Ultimate, Minimum % after Xenon-Arc Weather Resistance**	200% Minimum	340%	Pass

* Heat age EPDM membrane for: 166 ± 1.66 hours at 240 ± 4˚F (116 ± 2˚C), followed by specified physical testing.
** Weather Resistance shall be Practices G151 and G155 Xenon-Arc as follows:

Filter Type:	Daylight
Irradiance:	0.35 to 0.70 W/(m^2·nm) @ 340 nm [42 to 84 W/(m^2·nm) @ 300 to 400 nm]
Cycle:	690 minutes ± 15 minutes light, 30 minutes light plus water spray
Un-insulated Black Panel Temp:	176º ± 4ºF (80º ± 2ºC)
Relative Humidity:	50% ± 5%
Spray Water:	De-ionized
Specimen Rotation:	Every 315 KJ/(m^2·nm) @ 340 nm [37.8 MJ/(m^2·nm) @ 300 to 400 nm]
Exposure:	10,080 KJ/(m^2·nm) @ 340 nm [1209.6 MJ/(m^2·nm) @ 300 to 400 nm]

1. *When system design includes an air barrier, please consult your GenFlex Technical Services Advisor for additional roof system securement enhancements.*
2. *Consult the Designer / Architect, Code Agency or Authority having Jurisdiction (AHJ) for requirements regarding the selection and use of an appropriate air barrier material, and its installation into the building envelope*

Please contact GenFlex Technical Department at 1-800-443-4272 option 1, for further information.